IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

As a named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 3 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

	4-Aminopyrrolopy	<u>yrimidinės as Kin</u>	ase inhibitors						
the spe	cification of which (check one)			· · · · ·				
[]	is attached hereto.	,							
[x]	was filed on Septe	ember 17, 1999 a	as United States Application						
L J			ication No. 09/399,083						
	and was amended								
			(If application). and understand the contents of the abov	a idam	ei fi a A		ifica	+i	
includi	ng the claims, as am	ended by any am	endment referred to above.	e-iden	iiiiea	spec	піса	uon,	
defined	I acknowledge the 1 in 37 C.F.R. §1.56.	duty to disclose	information which is known by me to b	e mate	erial to	o pat	entab	oility a	S
country any for	ent or inventor's cert other than the Unit	ificate or 365(a) or ed States of Ame patent or invento	efits under 35 U.S.C. 119(a)-(d) or 365(of any PCT international application wherica, listed below and have also identifier's certificate, or of any PCT internation priority is claimed:	nich de ed belo	signa ow, b	ted a	t leas	st one g the b	ox,
		-	Prior Foreign Application(s)	Prior No Clair	t	C	Cert Copy ES	ified Filed? NO	
(Numb	er)	(Country)	(Day/Month/Year filed)	[]	[]	[]
(Numb	er)	(Country)	(Day/Month/Year filed)	[]	[]	[.]
(Numb	er)	(Country)	(Day/Month/Year filed)	Ĺ]	[]	[]
I hereb	y claim the benefit u	inder 35 U.S.C. §	119(e) of any United States provisional	applic	cation	(s) li	sted	below.	
(Applio	60/100,954 cation Number)		September 18, 1998 (Filing Date)						
(Applio	60/100,834 cation Number)		September 18, 1998 (Filing Date)						

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information known by me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

09/042,702		March 17, 1998	pending
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)		(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)		(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
As a named in Hamilton, Brook, Smi Customer No. 210	th & Reynol	by appoint the attorneys a ds, P.C., Two Militia Dri	and/or agents associated with ve, Lexington, Massachusetts 02421-4799
and John	D. Conway	Registration Num	ber: 39,105
to prosecute this applica	ition and to tr	ransact all business in the	Patent and Trademark Office connected therewith.
	rrocnandon	ce to: [] Customer No	. Noted Above
Please send co	arespondent	or	
Please send co	rrespondent	or [X] Address belo	w:
Rich: HAM Two	ird W. Wagi	[X] Address belo ner, Esq. OOK, SMITH & REYN	
Rich: HAM Two Lexir	ord W. Wagn ILTON, BR Militia Drive gton, MA 0	[X] Address belo ner, Esq. OOK, SMITH & REYN	OLDS, P.C.
Richa HAM Two Lexin Direct telephon	ard W. Wagr ILTON, BR Militia Drive gton, MA 0 ne calls to: <u>F</u>	[X] Address belo ner, Esq. OOK, SMITH & REYN 2 2421-4799	OLDS, P.C.
Richa HAM Two Lexin Direct telephon Direct facsimil I hereby declar made on information ar knowledge that willful	ard W. Wagn ILTON, BR Militia Drive gton, MA 0 ne calls to:F es to:F te that all stat d belief are belief are belief are belief are belief of the Unite	[X] Address belower, Esq. OOK, SMITH & REYN 2421-4799 Richard W. Wagner, Esq. Eichard W. Wagner, Esq. ements made herein of my believed to be true; and funts and the like so made and States Code and that such	OLDS, P.C. Telephone No.: 781-861-6240
Richa HAM Two Lexin Direct telephon Direct facsimil I hereby declar made on information ar knowledge that willful section 1001 of Title 18	ard W. Wagn ILTON, BR Militia Drive gton, MA 0 ne calls to:F es to:F te that all stat d belief are belief are belief are belief are belief of the Unite	[X] Address belower, Esq. OOK, SMITH & REYN 2421-4799 Richard W. Wagner, Esq. Eichard W. Wagner, Esq. ements made herein of my believed to be true; and funts and the like so made and States Code and that such	Telephone No.: 781-861-6240 Facsimile No.: 781-861-9540 y own knowledge are true and that all statements rether that these statements were made with the re punishable by fine or imprisonment, or both, under
Richa HAM Two Lexin Direct telephon Direct facsimil I hereby declar made on information ar knowledge that willful Section 1001 of Title 13 of the application or an	ard W. Wagn ILTON, BR Militia Drive gton, MA 0 ne calls to: _F es to: e that all stat d belief are belaise statemen of the Unite patent issue	[X] Address belover, Esq. OOK, SMITH & REYN 2421-4799 Richard W. Wagner, Esq. ements made herein of my believed to be true; and funits and the like so made and States Code and that sudd thereon.	Telephone No.: 781-861-6240 Facsimile No.: 781-861-9540 y own knowledge are true and that all statements of the that these statements were made with the repunishable by fine or imprisonment, or both, under the willful false statements may jeopardize the validity
Richa HAM Two Lexin Direct telephon Direct facsimil I hereby declar made on information ar knowledge that willful a Section 1001 of Title 18 of the application or an	ard W. Wagn ILTON, BR Militia Drive gton, MA 0 ne calls to: _F es to: e that all stat d belief are belaise statemen of the Unite patent issue	[X] Address belomer, Esq. OOK, SMITH & REYN 2421-4799 Richard W. Wagner, Esq. Richard W. Wagner, Esq. ements made herein of my believed to be true; and funts and the like so made and States Code and that such thereon.	Telephone No.: 781-861-6240 Facsimile No.: 781-861-9540 y own knowledge are true and that all statements rether that these statements were made with the re punishable by fine or imprisonment, or both, under
Richa HAM Two Lexin Direct telephon Direct facsimil I hereby declar made on information ar knowledge that willful Section 1001 of Title 18 of the application or an Full name of sole or first inventor	rd W. Wagn ILTON, BR Militia Drive gton, MA 0 ne calls to: _F es to: e that all stat d belief are be alse statement loof the Unite patent issue David Cal	[X] Address belover, Esq. OOK, SMITH & REYN 2421-4799 Richard W. Wagner, Esq. Richard W. Wagner, Esq. ements made herein of my believed to be true; and funts and the like so made are d States Code and that sudd thereon. Idderwood Colderwood	Telephone No.: 781-861-6240 Facsimile No.: 781-861-9540 y own knowledge are true and that all statements ther that these statements were made with the re punishable by fine or imprisonment, or both, under the willful false statements may jeopardize the validity
Richa HAM Two Lexin Direct telephon Direct facsimil I hereby declar made on information ar knowledge that willful a Section 1001 of Title 18 of the application or an Full name of sole or first inventor Inventor's Signature	rd W. Wagn ILTON, BR Militia Drive gton, MA 0 ne calls to:F es to:F e that all stat d belief are be	[X] Address belover, Esq. OOK, SMITH & REYN 2421-4799 Richard W. Wagner, Esq. Richard W. Wagner, Esq. ements made herein of my believed to be true; and funts and the like so made are d States Code and that sudd thereon. Idderwood Colderwood	Telephone No.: 781-861-6240 Facsimile No.: 781-861-9540 y own knowledge are true and that all statements riher that these statements were made with the re punishable by fine or imprisonment, or both, under ch willful false statements may jeopardize the validity
Richa HAM Two Lexin Direct telephon Direct facsimil I hereby declar made on information ar knowledge that willful a Section 1001 of Title 18 of the application or an Full name of sole or first inventor Inventor's Signature	rd W. Wagn ILTON, BR Militia Drive gton, MA 0 ne calls to:F es to:F e that all stat d belief are be	[X] Address belover, Esq. OOK, SMITH & REYN 2421-4799 Richard W. Wagner, Esq. Richard W. Wagner, Esq. ements made herein of my believed to be true; and funts and the like so made are d States Code and that sudd thereon. Idderwood Colderwood Ty Circle am, Massachusetts 01702	Telephone No.: 781-861-6240 Facsimile No.: 781-861-9540 y own knowledge are true and that all statements riher that these statements were made with the re punishable by fine or imprisonment, or both, under ch willful false statements may jeopardize the validity Date 12/15/99

Full name of second jo	pint	
inventor, if any	Lee Arnold A	
Inventor's Signature	She D. Unda	Date <u>12/16/99</u>
Residence		
	Westboro, Massachusetts 01581	
Citizenship	Canada	·
Post Office Address		
	t	
inventor, if any	Hormoz Mazdiyasni	
Inventor's Signature	Hormon Wordorania	Date 12/16/99
Residence	19 Old Farm Road	
	Douglas, Massachusetts 01516	
	United States	
	Same	
invenior, it any	Gavin C. Hirst	10/1/1
Inventor's Signature	7/20 1 (D 1	Date
Inventor's Signature Residence	Marlboro, Massachusetts 01752	
Inventor's Signature Residence Citizenship	Marlboro, Massachusetts 01752 Great Britain	
Inventor's Signature Residence	Marlboro, Massachusetts 01752 Great Britain	
Inventor's Signature Residence Citizenship Post Office Address	Marlboro, Massachusetts 01752 Great Britain Same	
Inventor's Signature Residence Citizenship Post Office Address Full name of fifth joint	Marlboro, Massachusetts 01752 Great Britain Same Boiuan B. Deng	
Inventor's Signature Residence Citizenship Post Office Address Full name of fifth joint inventor, if any	Marlboro, Massachusetts 01752 Great Britain Same	
Inventor's Signature Residence Citizenship Post Office Address Full name of fifth joint inventor, if any Inventor's Signature	Marlboro, Massachusetts 01752 Great Britain Same Boiuan B. Deng	
Inventor's Signature Residence Citizenship Post Office Address Full name of fifth joint inventor, if any Inventor's Signature	Marlboro, Massachusetts 01752 Great Britain Same Bojuan B. Deng	
Inventor's Signature Residence Citizenship Post Office Address Full name of fifth joint	Marlboro, Massachusetts 01752 Great Britain Same Bojuan B. Deng 80 Stoney Hill Road	

Full name of sixth joint		
inventor, if any	David N. Johnston	
Inventor's Signature		Date
Residence	Pennyfoot Street	
	Nottingham NG1 1GF, England	
Citizenship	Great Britain	
Post Office Address	Same	

Full name of seventh join		
•	Paul Rafferty	
	Pennyfoot Street	
<u> </u>	Nottingham NG1 1GF, England	
	Great Britain	
	Same	
Full name of eighth joint		
	Gerald B. Tometski	
Inventor's Signature		Date
	Pennyfoot Street	
	Nottingham NG1 1GF, England	
Citizenship	Great Britain	
Post Office Address	Same	
Full name of eighth joint		
	Helen L. Twigger	
• • • •		Date
Residence	Pennyfoot Street	
	Nottingham NG1 1GF, England	
Citizenship	Great Britain	
Post Office Address	Same	
Full name of eighth joint		
	Rainer Munschauer	
Residence	Zepplinstr. 5	
	67435 Neustadt, Germany	
	Germany	
Post Office Address	Same	
87254		

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

As a named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 3 hereof) of the solution which is claimed and for which a patent is sought on the invention entitled

***************************************	J Oldfillod dild lot Wi	non a patont is sou	Sm on mo myonnon ondinon						
	4-Aminopyrrolopy	rimidines as Kinas	se Inhibitors						
the spec	rification of which (c	check one)				· · ·			
-	`	oneek one)							
[]	is attached hereto.								
[x]	was filed on Septe	mber 17, 1999 as	United States Application						
	Number or PCT In	ternational Applic	ation No. 09/399,083						
	and was amended of	on	(if applicable).						
includir	I hereby state that Ing the claims, as ame	I have reviewed an ended by any amer	nd understand the contents of the aboundment referred to above.	ve-ide	ntified	spec	cifica	tion,	
defined	I acknowledge the in 37 C.F.R. §1.56.	duty to disclose in	formation which is known by me to	be ma	terial t	o pat	entab	oility	as
country any fore	nt or inventor's certi other than the Unite	ficate or 365(a) of d States of Americ patent or inventor's	its under 35 U.S.C. 119(a)-(d) or 365 any PCT international application we ca, listed below and have also identifies certificate, or of any PCT internation riority is claimed:	hich d ied be	lesigna low, b	ited a	t leas	st one	box,
		<u>Pr</u>	rior Foreign Application(s)	N	ority ot imed		Cert Copy ES	Filed	l? IO
(Numbe	er)	(Country)	(Day/Month/Year filed)	. []	[]	[]
(Numbe	er)	(Country)	(Day/Month/Year filed)	. []	[]	[]
(Numbe	er)	(Country)	(Day/Month/Year filed)	. []]]	[]
I hereby	claim the benefit ur	nder 35 U.S.C. §1	19(e) of any United States provisiona	l appl	ication	ı(s) li	isted	belov	v.
	60/100,954		September 18, 1998						
Applica	ation Number)		(Filing Date)						
Annlin	60/100,834 ation Number)		September 18, 1998 (Filing Date)						
Applica	auon Number)		(Filling Date)	•					

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information known by me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

09/042,702		March 17, 1	1998 pending
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
As a named in Hamilton, Brook, Smi Customer No210	th & Reynole	by appoint the attorn ds, P.C., Two Militia	eys and/or agents associated with a Drive, Lexington, Massachusetts 02421-4799
and John	D. Conway	Registration	Number: 39,105 ,
to prosecute this applica	ation and to t	ransact all business in	the Patent and Trademark Office connected therewith.
Please send co	rrespondenc	or	r No. Noted Above
		[X] Address	below:
		[A] Addi CSS	
HAM Two	ard W. Wagr ILTON, BR Militia Drive Igton, MA 0	ner, Esq. OOK, SMITH & RI	
HAM Two Lexin	IILTON, BŘ Militia Drive Igton, MA 0	ner, Esq. OOK, SMITH & RI	EYNOLDS, P.C.
HAM Two Lexin	IILTON, BR Militia Drive gton, MA 0 ne calls to: _F	ner, Esq. OOK, SMITH & RI 2 2421-4799	Esq. Telephone No.: 781-861-6240
HAM Two Lexin Direct telephon Direct facsimil I hereby declar made on information ar knowledge that willful	MILTON, BR Militia Drive Integration, MA 0 The calls to: The that all state Integrated belief are be The false statement The of the Unite	ner, Esq. OOK, SMITH & RI 2421-4799 Richard W. Wagner, I Richard W. Wagner, I ements made herein of the selieved to be true; and the like so mand that and the like so mand States Code and the	Esq. Telephone No.: 781-861-6240
HAM Two Lexin Direct telephon Direct facsimil I hereby declar made on information ar knowledge that willful Section 1001 of Title 18	MILTON, BR Militia Drive Integration, MA 0 The calls to: The that all state Integrated belief are be The false statement The of the Unite	ner, Esq. OOK, SMITH & RI 2421-4799 Richard W. Wagner, I Richard W. Wagner, I ements made herein of the selieved to be true; and the like so mand that and the like so mand States Code and the	Esq. Telephone No.: 781-861-6240 Esq. Facsimile No.: 781-861-9540 of my own knowledge are true and that all statements and further that these statements were made with the de are punishable by fine or imprisonment, or both, under
Direct telephor Direct facsimil I hereby declar made on information ar knowledge that willful Section 1001 of Title 18 of the application or an	MILTON, BR Militia Drive agton, MA 0 The calls to: _F The test of the Line and the Unite by patent issue	ner, Esq. OOK, SMITH & RI 2421-4799 Richard W. Wagner, I Richard W. Wagner, I ements made herein of the selieved to be true; and the like so mailed States Code and the different.	Esq. Telephone No.: 781-861-6240 Esq. Facsimile No.: 781-861-9540 of my own knowledge are true and that all statements and further that these statements were made with the de are punishable by fine or imprisonment, or both, under
Direct telephon Direct facsimil I hereby declar made on information ar knowledge that willful section 1001 of Title 18 of the application or any Full name of sole or first inventor	MILTON, BR Militia Drive Integration, MA 0 The calls to:F The test all state Ind belief are be The statement	ner, Esq. OOK, SMITH & RI 2421-4799 Richard W. Wagner, I Richard W. Wagner, I ements made herein of the selieved to be true; and the like so mailed States Code and the different.	Esq. Telephone No.: 781-861-6240 Esq. Facsimile No.: 781-861-9540 of my own knowledge are true and that all statements and further that these statements were made with the de are punishable by fine or imprisonment, or both, under
Direct telephore Direct facsimil I hereby declare made on information are knowledge that willful section 1001 of Title 18 of the application or any full name of sole or first inventor	ILTON, BR Militia Drive Integration, MA 0 The calls to: _F The test all state and belief are be false statement B of the Unite by patent issue David Cal	ner, Esq. OOK, SMITH & RI 2421-4799 Richard W. Wagner, I Richard W. Wagner, I ements made herein o believed to be true; an od States Code and tha d thereon.	Esq. Telephone No.: 781-861-6240 Esq. Facsimile No.: 781-861-9540 of my own knowledge are true and that all statements and further that these statements were made with the de are punishable by fine or imprisonment, or both, under at such willful false statements may jeopardize the validity
Direct telephore Direct facsimil I hereby declare made on information are knowledge that willful section 1001 of Title 18 of the application or any full name of sole or first inventor	ILTON, BR Militia Drive Integration, MA 0 The calls to:F The test all state Indicate by the Unite Integration of the	ner, Esq. OOK, SMITH & RI 2 2421-4799 Richard W. Wagner, I Richard W. Wagner, I ements made herein of the like so mand the like so mand States Code and the difference. Iderwood hy Circle	Esq. Telephone No.: 781-861-6240 Esq. Facsimile No.: 781-861-9540 of my own knowledge are true and that all statements and further that these statements were made with the de are punishable by fine or imprisonment, or both, under at such willful false statements may jeopardize the validity Date
Direct telephore Direct facsimil I hereby declare made on information are knowledge that willful section 1001 of Title 18 of the application or any Full name of sole	ILTON, BR Militia Drive Integration, MA 0 The calls to: _F The est o: _F The test all state Integrated belief are befalse statement The control of the Unite The patent issue David Call 4 McCartl Framingh	ner, Esq. OOK, SMITH & RI 2421-4799 Richard W. Wagner, I Richard W. Wagner, I ements made herein of the like so mand the like so mand the like so mand thereon. Iderwood hy Circle am, Massachusetts 0	Esq. Telephone No.: 781-861-6240 Esq. Facsimile No.: 781-861-9540 of my own knowledge are true and that all statements and further that these statements were made with the de are punishable by fine or imprisonment, or both, under at such willful false statements may jeopardize the validity

Full name of second joint	;	
inventor, if any	Lee Arnold	
Inventor's Signature		Date
Residence	216 Ruggles Street	
	Westboro, Massachusetts 01581	
Citizenship	Canada	
Post Office Address	Same	
Full name of third joint		
•	Hormoz Mazdiyasni	
	19 Old Farm Road	
	Douglas, Massachusetts 01516	
	United States	
Post Office Address	Same	
Full name of fourth joint		
-	Gavin C. Hirst	
Inventor's Signature		Date
	112 Robert Road	
	Marihana Massashusatta 01752	
Citizenship	Great Britain	
	Same	
Full name of fifth joint		
·	Bojuan B. Deng	
Inventor's Signature		Date
Residence _	80 Stoney Hill Road	
	Shrewsbury, MA 01545	
Citizenship	D1 D11:6 Cl-!	
Post Office Address		
		· · · · · · · · · · · · · · · · · · ·

Full name of sixth joint		
inventor, if any	David N. Johnston	
Inventor's Signature		Date
Residence	Pennyfoot Street	
	Nottingham NG1 1GF, England	44-4
Citizenship	Great Britain	
	Same	•
inventor, if any	Paul Rafferty	
Inventor's Signature		Date
Residence	Pennyfoot Street	
	Nottingham NG1 1GF, England	
Citizenship	Great Britain	
Post Office Address	Same	
	 t	
	Gerald B. Tometski	
-		
	Pennyfoot Street	
	Nottingham NG1 1GF, England	
	Great Britain	
<u>-</u>	Same	
Full name of eighth join		
0 ,	Helen L. Twigger	
•	Helen L. Twigger	
Residence		Batc
	Nottingham NG1 1GF, England	
Citizenship	Course Duite in	
	Same	
Full name of eighth join	t	
inventor, if any	Rainer Munschauer	
Inventor's Signature		Date 12/15/99
Residence		
	67435 Neustadt, Germany	
Citizenship	Germany	
	Germany Same	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

As a named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 3 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

	4-Aminopyrrolop	yrimidines as Kinas	se Inhibitors						
the spe	ecification of which	(check one)							
[]	is attached hereto								
[x]	was filed on Sep	tember 17, 1999 as	United States Application						
	Number or PCT I	International Applica	ation No. 09/399,083						
	and was amended	l on	(if applicable).						
includ	I hereby state thaing the claims, as an	t I have reviewed an nended by any amer	nd understand the contents of the abode above.	ove-ide	ntified	spec	ifica	tion,	
define	I acknowledge the d in 37 C.F.R. §1.56		formation which is known by me to	o be ma	terial t	o pat	entab	oility	as
countr any fo	tent or inventor's cer by other than the Univergen application for	tificate or 365(a) of ted States of Americ	its under 35 U.S.C. 119(a)-(d) or 36 any PCT international application ca, listed below and have also idents certificate, or of any PCT internationity is claimed:	which dified be	lesigna low, b	ted a	t leas	st one g the	box,
		<u>Pr</u>	rior Foreign Application(s)	N	ority lot imed			ified Filed N	? O
(Numl	ber)	(Country)	(Day/Month/Year filed)	[]	[]	[]
(Numl	ber)	(Country)	(Day/Month/Year filed)	_ []	[]	[]
(Numl	ber)	(Country)	(Day/Month/Year filed)	_ []	[]	[]
I herel	by claim the benefit	under 35 U.S.C. §1	19(e) of any United States provision	nal appl	ication	ı(s) l:	isted	belov	v.
(Appli	60/100,954 ication Number)		September 18, 199 (Filing Date)	98					
(Appli	60/100,834 ication Number)		September 18, 199 (Filing Date)	98					

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information known by me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

09/042,702		March 17, 19	998 pending
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)		(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
As a named in Hamilton, Brook, Smi Customer No. 2100	th & Reynole	by appoint the attorneds, P.C., Two Militia	ys and/or agents associated with Drive, Lexington, Massachusetts 02421-4799
and John	D. Conway	Registration N	Number: 39,105 ,
to prosecute this applica	ation and to tr	ansact all business in	the Patent and Trademark Office connected therewith.
Please send co	orrespondenc	ce to: [] Customer	No. Noted Above
	•	or [X] Address l	
Two	Militia Drive		INOLDS, I.C.
Direct telephor	ne calls to: <u>F</u>	Richard W. Wagner, E	sq. Telephone No.: 781-861-6240
Direct facsimil	les to:F	Richard W. Wagner, E	sq. Facsimile No.: 781-861-9540
made on information an knowledge that willful	nd belief are b false statemer 8 of the Unite	elieved to be true; and its and the like so mad d States Code and that	f my own knowledge are true and that all statements if further that these statements were made with the le are punishable by fine or imprisonment, or both, under t such willful false statements may jeopardize the validity
Full name of sole			
or first inventor	David Cal	derwood	
Inventor's Signature			Date
Residence		-	
		am, Massachusetts 01	702
Citizenship		ain	
Post Office Address	Same		

Full name of second joint inventor, if any _____ Lee Arnold _____ Date _____ Inventor's Signature 216 Ruggles Street Residence Westboro, Massachusetts 01581 Citizenship _ Canada Post Office Address Same Full name of third joint inventor, if any _____ Hormoz Mazdiyasni Inventor's Signature__ _____ Date _____ Residence ____ 19 Old Farm Road Douglas, Massachusetts 01516 Citizenship ____ United States Post Office Address Same Full name of fourth joint inventor, if any Gavin C. Hirst Inventor's Signature____ _____ Date _____ Residence ____ 112 Robert Road Marlboro, Massachusetts 01752 Citizenship Great Britain Post Office Address ____ Same Full name of fifth joint inventor, if any _____ Bojuan B. Deng Inventor's Signature___ __ Date _____ 80 Stoney Hill Road Residence _____ Shrewsbury, MA 01545 Citizenship _____ Peoples Republic of China Post Office Address Same



Full name of sixth joint	·		
inventor, if any	David N Johnston		
Inventor's Signature		Date 15.12.99	
Residence			
	Nottingham NG1 1GF, England		
Citizenship	Great Britain		
	Same		
,			
	•		
inventor, if any	Paul Rafferty		
Inventor's Signature	Paul Rafferty Paul Rafferty	Date (6.12.0	19
	Pennyfoot Street		
	N 1 NGLIGE P. 1 1		
Citizenship			
Post Office Address		· · · · · · · · · · · · · · · · · · ·	
			<u> </u>
Full name of eighth joint			
inventor, if any	Z.		CET IS 120
		Date \5.12.90	_
Residence			`
•	Not 1 NOT 100 D. 1. 1		
	Great Britain		
•	Same		
Full name of eighth joint			
inventor, if any	H ligger	Date 09 100 200	<u> </u>
Residence	Pennyfoot Street	Date 03 Out cos	<u></u>
excesidence	Nottingham NG1 1GF, England		
Citizenship			
=	Same		
			-
inventor, if any	Rainer Munschauer		_
	Zepplinstr. 5		
	67435 Neustadt, Germany		
Citizenship	Germany		_
	Same		
27254			